

NC-80X AND NC-81X RECEIVERS

RESISTOR AND CONDENSER LIST

R1	1st Det. Bias	2,000 ohms	1/2 watt
R2	1st Det. Plate Filter	1,000 ohms	1/2 watt
R3	1st I.F. Grid Filter	.5 megohm	1/2 watt
R4	1st I.F. Bias	500 ohms	1/2 watt
R5	1st I.F. Plate Filter	1,000 ohms	1/2 watt
R6	2nd I.F. Grid Filter	.5 megohm	1/2 watt
R7	2nd I.F. Bias	500 ohms	1/2 watt
R8	2nd I.F. Plate Filter	1,000 ohms	1/2 watt
R9	3rd I.F. Grid Filter	.5 megohm	1/2 watt
R10	3rd I.F. Bias	500 ohms	1/2 watt
R11	2nd Det. Bias	20,000 ohms	1/2 watt
R12	2nd Det. Plate	50,000 ohms	1/2 watt
R13	Audio Gain	500,000 ohms	Variable
R14	Output Bias	140 ohms	1 watt
R15	H.F. Osc. Grid	20,000 ohms	1/2 watt
R16	H.F. Osc. Plate Filter	1,000 ohms	1/2 watt
R17	R.F. Gain	10,000 ohms	Variable
R18	S-Meter Balancing	1,000 ohms	Variable
R19	S-Meter Bridge	50,000 ohms	1/2 watt
R20	C.W. Osc. Grid	50,000 ohms	1/2 watt
R21	C.W. Osc. Screen	50,000 ohms	1/2 watt
R22	C.W. Osc. Plate	50,000 ohms	1/2 watt
R23	AVC Plate Filter	1,000 ohms	1/2 watt
R24	Grid Return Filter	.5 megohm	1/2 watt
R25	AVC Bias	5,000 ohms	1/2 watt
R26	AVC Diode Return	.5 megohm	1/2 watt
R27	Series Heater	93 ohms	10 watts
R28	S-Meter Bridge	2,000 ohms	1/2 watt
L1	2nd Det. I.F. Filter	12 mh.	
L2	Rectifier Filter	20 Henry	
C1	1st Det. Cathode	.1 mfd.	200 volt
C2	1st Det. Plate	.1 mfd.	200 volt
C3	1st I.F. Grid Filter	.01 mfd.	400 volt
C4	1st I.F. Cathode	.1 mfd.	200 volt
C5	1st I.F. Plate	.1 mfd.	200 volt
C6)			
C7)	Crystal Filter Bridge	145 mmf. ea.	Mica
C8	Crystal Filter Output	10 mmf.	Mica
C9	2nd I.F. Grid Filter	.01 mfd.	400 volt
C10	2nd I.F. Cathode	.1 mfd.	200 volt
C11	2nd I.F. Plate	.1 mfd.	200 volt
C12	3rd I.F. Grid Filter	.01 mfd.	400 volt
C13	3rd I.F. Cathode	.1 mfd.	200 volt
C14	2nd Det. Cathode	10 mfd.	50 volt
C15	2nd Det. Plate	.0005 mfd.	Mica
C16	Output Cathode	10 mfd.	50 volt

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RESISTOR AND CONDENSER LIST CONT.

C17	2nd Det. Plate	.0005	mfd.	Mica
C18	Audio Coupling	.1	mfd.	200 Volt
C19	Output Plate	.001	mfd.	Mica
C20	Output Plate	.25	mfd.	200 Volt
C21	H.F. Osc. Grid	.0001	mfd.	Mica
C22	H.F. Osc. Plate	.1	mfd.	200 Volt
C23	C.W. Osc. Grid.	.0001	mfd.	Mica
C24	C.W. Osc. Coupling	2	mmf.	Special
C25	C.W. Osc. Screen	.1	mfd.	200 Volt
C26	AVC Cathode	.1	mfd.	200 Volt
C27	AVC Plate	.1	mfd.	200 Volt
C28	Diode Filter	.01	mfd.	400 Volt
C29	Heater Bypass	.1	mfd.	200 Volt
C30	C.W. Osc. Heater	.1	mfd.	200 Volt
C31)				
C32)	Rectifier Filter	40	mfd.ea.	200 Volt
C33	Line Bypass	.1	mfd.	400 Volt
C34	Heater Bypass	.001	mfd.	Mica
T1	Special Transformer	-	See "General Description"	

The schematic diagram illustrates the internal circuitry of a vacuum tube radio receiver, Model 25L6G. The circuit is organized into several functional sections:

- RF Section:** Utilizes a 6J7-1ST DET tube for the first detector stage, followed by a 6K7-1ST IF tube for the first intermediate frequency amplifier. It includes a variable capacitor for tuning and a phasing control.
- Detector and Converter Section:** Employs a 6K7-2ND IF tube for the second intermediate frequency amplifier and a 6K7-3RD IF tube for the detector and converter stage. It features a variable capacitor and a phasing control.
- AF Section:** Uses a 6K7-4TH IF tube for the fourth intermediate frequency amplifier, followed by a 6K7-5TH IF tube for the fifth intermediate frequency amplifier. It includes a variable capacitor and a phasing control.
- AF Amplifier and Audio Output Section:** Utilizes a 6K7-6TH IF tube for the sixth intermediate frequency amplifier, followed by a 6K7-7TH IF tube for the seventh intermediate frequency amplifier. It includes a variable capacitor and a phasing control.
- Power Supply Section:** Features a 25Z5 RECT tube for rectification, a 25L6G tube for the power supply, and a 25L6G tube for the heater. It includes a variable capacitor and a phasing control.
- Heater Section:** Utilizes a 25L6G tube for the heater, which is connected to a 25L6G tube for the heater.

The diagram includes various components such as resistors (R1-R28), capacitors (C1-C34), and a speaker (SPKR). It also shows a variable capacitor for tuning and a phasing control. The circuit is designed for high-fidelity audio reproduction and reliable power supply.